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PATENT SPECIFICATION

617,471



Application Date : Oct. 2, 1946.  
" Feb. 27, 1947.

No. 29415/46.  
No. 5712/47.

One Complete Specification Left (under Section 16 of the Patents and Designs Acts, 1907 to 1946): Feb. 28, 1947.

Specification Accepted: Feb. 7, 1949.

Index at acceptance:—Class 87(ii), F(1g: 2c).

PROVISIONAL SPECIFICATION  
No. 29415 A.D. 1946

Slides for Power Presses

I, CHARLES JOSEPH RHODES, a British Subject, of Grove Ironworks, Wakefield, Yorkshire, do hereby declare the nature of this invention to be as follows:—

5 This invention relates to slides for power presses.

In power presses it is usual to guide the reciprocation of the ram by means of Vee slides. Slides of this kind, however, are not sufficiently accurate and require continual adjustment.

According to the invention the ram of a power press is guided for reciprocation by grooves of part-circular cross-section formed therein sliding on part-cylindrical members rigidly secured to the side members of the machine each said side member having a longitudinally extending flat abutting a correspondingly extending flat on the side member to which it is secured. The part-cylindrical slide formed in this manner is extremely accurate and requires a minimum of adjusting and setting.

25 In one embodiment of the invention the ram of a power press is mounted in a

single casting forming a frame with two vertical side members. The face of each side member is machined to a flat. A circular steel slide bar having a flat ground along its whole length is secured to each side member with the flat on the bar presented to the flat machined on the side member. The bar is secured to the side member by means of a number of bolts spaced along its length. The ram has two lateral projections or gibs in which corresponding part-cylindrical grooves are machined, and detachable part-cylindrical bushes which are provided within the grooves. Two axially spaced bushes may conveniently be provided in each groove.

Dated the 2nd day of October, 1946.

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PROVISIONAL SPECIFICATION  
No. 5712 A.D. 1947

Slides for Power Presses

45 I, CHARLES JOSEPH RHODES, a British Subject, of Grove Ironworks, Wakefield, Yorkshire, do hereby declare the nature of this invention to be as follows:—

This invention relates to slides for power presses.

In power presses it is usual to guide the reciprocation of the ram by means of Vee slides. Slides of this kind, however, are not sufficiently accurate and require continual adjustment.

55 In my Provisional Specification No. 29415/46, I have described an arrange-

ment in which the ram of a power press is guided for reciprocation by grooves of part-circular cross-section formed therein sliding on part-cylindrical members rigidly secured to the side members of the machine, each said part-cylindrical member having a longitudinally extending flat abutting a corresponding flat on the side member to which it is secured. The part-cylindrical slide formed in this manner is extremely accurate and requires a minimum of adjusting and setting.

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[Price 2/-]